

Improved device for generating stable differential pressures, intended for calibrating pressure sensors

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Abstract

Improved device for generating stable differential pressures, intended for calibrating pressure sensors, which is composed: - of a sealed circuit 3 passed through by a continuous, constant and stable flow of air, comprising, from upstream to downstream: - a diaphragm 2, intended to generate the differential pressure to be measured, - a sonic orifice 5 intended to obtain a stable flow, - finally, a means such as a pump 4, 18 for ensuring this constant flow; - and of a member intended to measure the differential pressure generated between upstream and downstream of the said diaphragm 2 comprising a by-pass, a reference manometer and the pressure sensor to be calibrated, characterised in that the said circuit 3 also comprises a micrometric valve 10 opening to the atmosphere, disposed between

the diaphragm 2 and the sonic orifice 5. 

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